

Title (en)
METHOD FOR VALIDATING COINS

Title (de)
VERFAHREN ZUR ECHTHEITSPRÜFUNG VON MÜNZEN

Title (fr)
METHODE POUR AUTHENTIFIER DES PIÈCES DE MONNAIE

Publication
EP 0824738 B1 20031112 (EN)

Application
EP 96913637 A 19960509

Priority
• GB 9601109 W 19960509
• GB 9509387 A 19950509

Abstract (en)
[origin: GB2300746A] A method of testing currency e.g. coins comprises taking at least two measurements of an unknown coin: and accepting said unknown coin as corresponding to a first coin type A if the point defined by the measurements lies, in the space defined by the axes of the measurements, on a first side of a discriminant surface C at which the Mahalanobis distances of the centres of the distribution of said first coin type A and a second coin type B are in a predetermined relationship, characterised in that said relationship corresponds (at least approximately) to equality of the sums of the respective Mahalanobis distances with respective predetermined constants at least one of which is non-zero. In this way the relative probabilities of the two coin types occurring in a population can be taken into account. In other described embodiments the discriminant surface is changed depending on the characteristics of articles previously measured. Alternatively an acceptance region is adjusted in accordance with the measurements of articles previously tested or in dependence on the time between successive valid and/or invalid articles, or in dependence on the probability that an article just tested is valid or not.

IPC 1-7
G07D 7/00; **G07D 5/00**

IPC 8 full level
G06K 9/62 (2006.01); **G07D 5/00** (2006.01); **G07D 7/00** (2006.01)

CPC (source: EP US)
G06F 18/22 (2023.01 - EP US); **G06F 18/24133** (2023.01 - EP US); **G06F 18/24155** (2023.01 - EP US); **G06F 18/245** (2023.01 - EP US); **G07D 5/00** (2013.01 - EP US)

Designated contracting state (EPC)
CH DE ES FR IT LI NL SE

DOCDB simple family (publication)
GB 2300746 A 19961113; **GB 2300746 B 19990407**; **GB 9509387 D0 19950628**; AU 5655896 A 19961129; AU 720271 B2 20000525; DE 69630686 D1 20031218; DE 69630686 T2 20040916; DE 69637234 D1 20071018; DE 69637234 T2 20080529; EP 0824738 A2 19980225; EP 0824738 B1 20031112; EP 0924658 A2 19990623; EP 0924658 A3 20010704; EP 0924658 B1 20070905; EP 1722335 A1 20061115; ES 2210361 T3 20040701; ES 2291002 T3 20080216; US 5931277 A 19990803; WO 9636022 A2 19961114; WO 9636022 A3 19970103

DOCDB simple family (application)
GB 9509387 A 19950509; AU 5655896 A 19960509; DE 69630686 T 19960509; DE 69637234 T 19960509; EP 06076086 A 19960509; EP 96913637 A 19960509; EP 99105541 A 19960509; ES 96913637 T 19960509; ES 99105541 T 19960509; GB 9601109 W 19960509; US 95224098 A 19980202